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(21) International Application Number: PCT/US94/05493 (22) International Filing Date: 20 May 1994 (20.05.94) (30) Priority Data: 93027586 21 May 1993 (21.05.93) RU (71) Applicant (for all designated States except US): RUSSIAN TECHNOLOGY GROUP [US/US]; Suite 214, 1670 S. Amphlett Boulevard, San Mateo, CA 94402 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): GVON, Khan Ir [RU/RU]; pr. Patsaeva, 14-26, Moscow Region, 141700, Dolgoprudny City (RU). BOBROV, Yuri A. [RU/RU]; Zelenograd, 906-128, Moscow, 103575 (RU). BYKOV, Victor A. [RU/RU]; Zelenograd, 815-200, Moscow, 103527 (RU). IGNATOV, Leonid Y. [RU/RU]; ul. Angarskaia, 20-3-81, Moscow, 127635 (RU). IVANOVA, Tatiana D. [RU/RU]; Zelenograd, 200-"G"-144, Moscow, 103305 (RU). POPOV, Sergei I. [RU/RU]; ul. Profsoyuznaia, 96-4-11, Moscow, 117485 (RU). SHISHKINA, Elena Y. [RU/RU]; ul. Angarskaia, 57-2-94, Moscow, 127412 (RU). VOROZHTSOV, Georgiy N. [RU/RU]; ul. Sadovaya-Spasskaia, 21-268, Moscow, 107078 (RU).		(74) Agents: SHENKER, Michael et al.; Skjerven, Morrill, MacPherson, Franklin & Frial, Suite 700, 25 Metro Drive, San Jose, CA 95110 (US). (81) Designated States: JP, US, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).  Published With international search report.	
(54) Title: THERMOSTABLE AND LIGHTFAST DICHROIC LIGHT POLARIZERS			
(57) Abstract  Polarizing coatings are formed from dyestuffs which provide a stable liquid crystalline phase in a wide range of concentrations, temperatures and pH-values. Particles formed by aggregates of the liquid crystal molecules are oriented in a predetermined direction to polarize light. The stability of the liquid crystalline state allows orienting the particles by mechanical forces such as a shearing force applied when the liquid crystal (10) is spread on a support surface (20) by a knife-like doctor (90) or a tension deformation force acting on the meniscus of the liquid crystal deposited between two surfaces (20, 30) as the surfaces are peeled off one another. As a result, the polarizing coatings are formed in some embodiments by simple methods. In some embodiments, the polarizing coatings have a high lightfastness, a high thermal stability, and a high dichroic ratio.			

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